

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/10331

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L37/252

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 770 809 A (SAKURA RUBBER) 2 May 1997 (1997-05-02) column 1, line 3 -column 10, line 8; claims 1-3,6,8,9,11; figures	1-5
Y	---	7
X	DE 17 38 434 U (MAX WIEDENMANN ARMATURENFABRIK) 24 January 1957 (1957-01-24) the whole document	1
Y	---	7
X	DE 380 786 C (MICHAEL ECKERT) 11 September 1923 (1923-09-11) the whole document	1,2,4
X	US 3 201 151 A (WESTVEER ROBERT C) 17 August 1965 (1965-08-17) figures 1,3	1,2

	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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A document defining the general state of the art which is not considered to be of particular relevance

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Z document member of the same patent family

Date of the actual completion of the international search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03 074922 A (ISO MASA AKI ; SAKURA RUBBER (JP); YUDA KAZUHIRO (JP); HORIMOTO AKIR) 12 September 2003 (2003-09-12) figures -----	1, 2, 4, 5

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Information on patent family members

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